Electrolux

SERVICE MANUAL

COOKING



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599 73 23-69

ΕN

Built-in ovens

APOLLO STRUCTURE FOR AEG NEW COLLECTION AND ELECTROLUX VOSS HUSQVARNA

Edition: 02/2011 - Rev. 00

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1 - INTRODUCTION

1.1 - PURPOSE OF THIS MANUAL

The purpose of this Manual is to provide general information of AEG-NEW COLLECTION and ELECTROLUX VOSS, HUSQVARNA Built-in Ovens with Apollo structure.

2 - GENERAL INFORMATION

This manual contains advice for the replacement of components, see also the other manuals related to the models involved in TDS.

See also the service manual OVC3000 Power Board for troubleshooting.

2.1 - WARNINGS



- All work with open appliances must be done with the mains supply disconnected.
- The intervention on electrical equipment should only be performed by qualified personnel.
- Before an operation in a device, check the efficiency of the system housing through means of appropriate equipment. As an example, refer to the indications described / illustrated in the portal Electrolux Learning Gateway (http://electrolux.edvantage.net).

After intervention, verify that the conditions have been restored to the safety switch apparatus, as just leaving the assembly line.

 In the case of manipulation / replacement of the PCB, use the ESD kit (Code 405 50 63-95/4) to prevent electrostatic discharge damage the circuit board see SB No. 599 72 08-09

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2.2 - EXAMPLE OF "H" DESIGN AEG

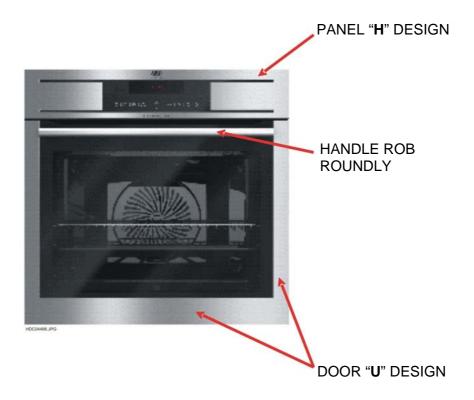


Fig. 1



Fig. 2

2.2.1 - APPLIANCES VERSION OF "H" DESIGN AEG



(*) NOTE : In this type of appliances will only change the aesthetics, while the user interface, power electronics (OVC2000) and the cavity are old version.

BUILT-IN MODELS BUILT-UNDER MODELS ABB ABB ABB Fig. 8

Fig. 7

2.3 - EXAMPLE OF "T" DESIGN AEG

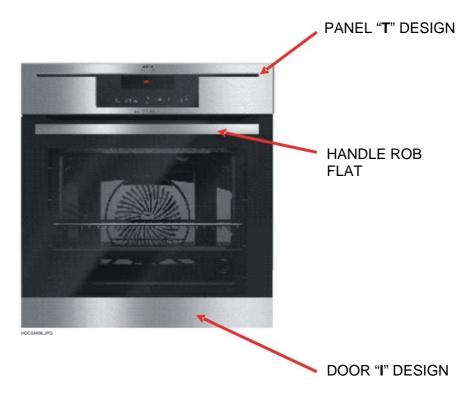


Fig. 9



Fig. 10

2.3.1 - APPLIANCES VERSION OF "T" DESIGN AEG

MAXI-CLASS OVEN Ó

PROCOMBI STEAM **OVEN**



PYROLUXE PLUS OVEN



Fig. 11

Fig. 12

Fig. 13

BUILT-IN MODELS



BUILT-UNDER MODELS



Fig. 14

2.4 - EXAMPLE OF ELECTROLUX VOSS, HUSQVARNA DESIGN

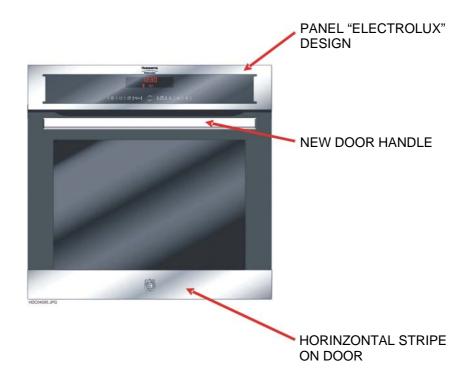


Fig. 16



Fig. 17

2.4.1 - APPLIANCES VERSION OF ELECTROLUX VOSS, HUSQVARNA DESIGN

BUILT-IN MODELS

BUILT-UNDER MODELS

BU UMPD LOW PANEL

BI VISION STEAM PANEL



Fig. 18

Fig. 24

BI VISION TOUCH+ROTARY PREMIUNM TOP PANEL



Fig. 19

BI OMEGA TOUCH PREMIUM PANEL



Fig. 20

BI HEXAGON CLASSIC PANEL



Fig. 21

BI UMPD LOW PANEL



Fig. 22

BI BASIC PANEL



Fig. 23

3 - CONTROL PANEL

For identify colour by panel and door.



Both parts are manufactured from a steel plate packet. The surface of steel plate is pre-painted.

OLD

The panel was manufactured by deep-drawn. The steel plate wasn't pre-painted. Afterwards, the panels are sent outside for pre-painting.



Fig. 25

NEW

The sides of the panel are folded and the end of the sides complete bonded in the corners Work step: to send the panel for pre-painting outside, is cancelled. (cost saving)



Fig. 26 Fig. 27

3.1 - EXAMPLE OF RANGE OF CONTROL PANEL AEG

3.1.1 - UI PC AEG MODELS



Fig. 28

- 1 DISPLAY
- 2 TOUCH CONTROL
- 3 SHUTTLE KNOB

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3.1.2 - UI VISION UPDATE (VCU) AEG MODELS



Fig. 29

- 1 DISPLAY
- 2 TOUCH CONTROL 3 SHUTTLE KNOB
- 4 WATER DRAWER (FOR STEAM)



Fig. 30

- 1 DISPLAY
- 2 TOUCH CONTROL
- 3 SHUTTLE KNOB

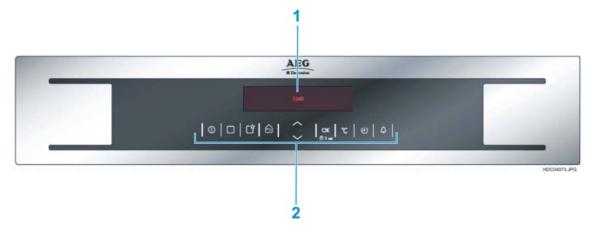


Fig. 31

- 1 DISPLAY
- 2 TOUCH CONTROL

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3.1.3 - UI OMEGA AEG MODELS



Fig. 32

- 1 DISPLAY
- 2 TOUCH CONTROL

3.1.4 - UI EXAGON AEG MODELS



Fig. 33

- 1 DISPLAY
- 2 FUNCTION KNOB
- 3 KEY PROGRAMMER
- 4 TEMPERATURE KNOB

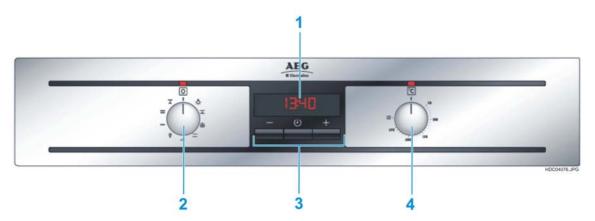


Fig. 34

- 1 DISPLAY
- 2 FUNCTION KNOB
- 3 KEY PROGRAMMER
- 4 TEMPERATURE KNOB

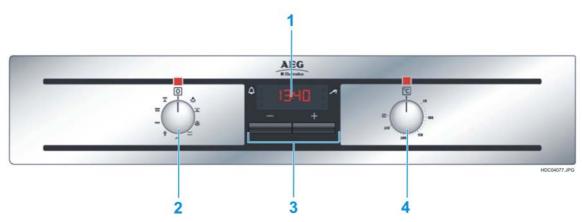


Fig. 35

- 1 DISPLAY 2 FUNCTION KNOB
- 3 KEY PROGRAMMER
- 4 TEMPERATURE KNOB

3.1.5 - AEG MODELS WITHOUT PROGRAMMER



Fig. 36

- 1 FUNCTION KNOB 2 TEMPERATURE KNOB

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3.2 - EXAMPLE OF CONTROL PANEL ELECTROLUX VOSS, HUSQVARNA

3.2.1 - UI VISION UPDATE (VCU) MODELS

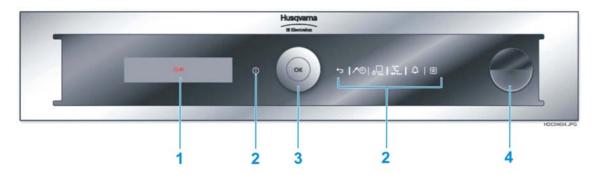


Fig. 37

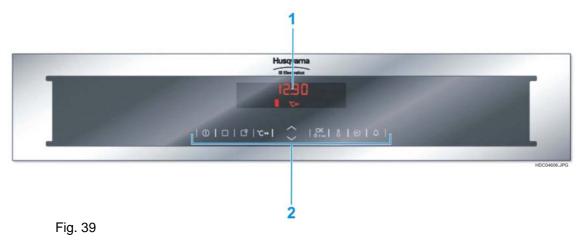
- 1 DISPLAY
- 2 TOUCH CONTROL
- 3 SHUTTLE KNOB
- 4 WATER DRAWER (FOR STEAM)



Fig. 38

- 1 DISPLAY
- 2 TOUCH CONTROL
- 3 SHUTTLE KNOB

3.2.2 - UI OMEGA MODELS



- 1 DISPLAY
- 2 TOUCH CONTROL

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3.2.3 - UI EXAGON MODELS



Fig. 40

- 1 DISPLAY
- 2 FUNCTION KNOB
- 3 KEY PROGRAMMER
- 4 TEMPERATURE KNOB

3.2.4 - UI UMPD MODELS



Fig. 41

- 1 DISPLAY
- 2 FUNCTION KNOB
- 3 KEY PROGRAMMER
- 4 TEMPERATURE KNOB

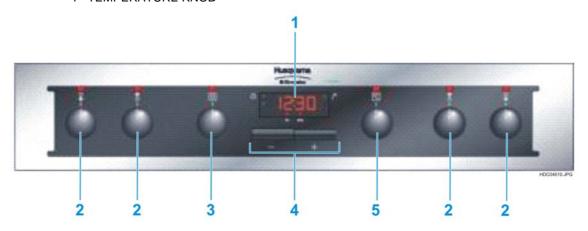


Fig. 42

- 1 DISPLAY
- 2 HOB KNOB
- 3 FUNCTION KNOB
- 4 KEY PROGRAMMER
- 5 TEMPERATURE KNOB

3.2.4 - MODELS WITHOUT PROGRAMMER



Fig. 43

- 1 KEY PROGRAMMER 2 TEMPERATURE KNOB

4 - TOP COVER PLATE

The cover top is secured with only 5 screws which can be removed for complete removal of the panel.

The steam expulsion outlet integrated in the hob is cancelled.



Fig. 45



OVEN WITHOUT COVER

Fig. 44

Fig. 46

5 - SCREWS

SCREWS

It be used in the appliance only two different screws!

Important: Both screw versions can be handled by the same screw bit TORX20.



6 - DOOR HINGE LOCK

OLD SYSTEM

Locking lever to pull up

DOOR HINGE LOCKED

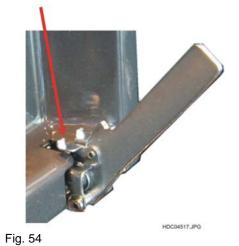


Fig. 50
DOOR HINGE UNLOCKED



Fig. 52

UPLOCK HOOK POSITION



NEW SYSTEM

Locking lever to press down

DOOR HINGE LOCKED



Fig. 51

DOOR HINGE UNLOCKED



Fig. 53



Fig. 55

7 - DOOR HINGE WITH SOFT-CLOSING

Soft-Closing is included in the left door hinge only.

DOOR HINGE LEFT

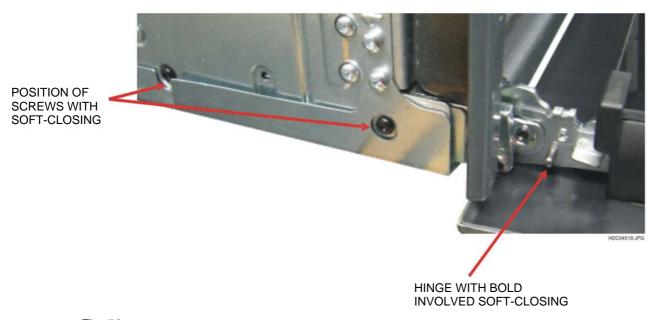
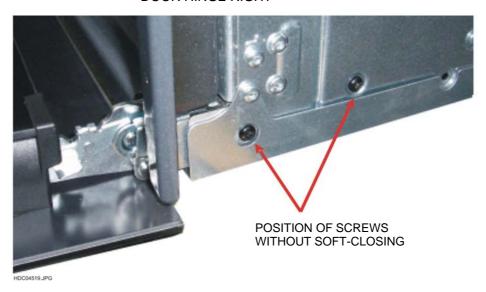


Fig. 56

DOOR HINGE RIGHT



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Fig. 57

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8 - CHILD SAFETY

Depends on version of appliances, can be equipped with child safety. The position of the child safety, is on the front door, right side, over the door handle (see Fig. 58).



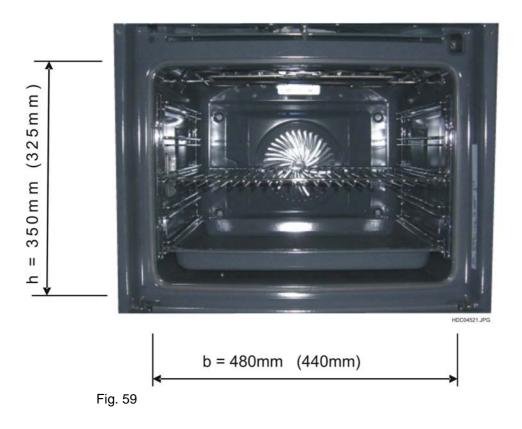
Fig. 58

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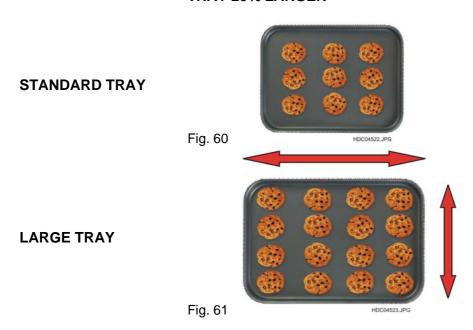
9 - OVEN CAVITY

The sizes of the cavity are changed. The new cavity is larger than the old cavity (see Fig. 59, 60 and 61).

CAVITY CAPACITY 65 LITRE (10 LITRE LARGER)



TRAY 20% LARGER



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10 - LATERAL TRACKS FOR GRIDS

For a better handling of the baking tray and grill grid, the length of the lower guide track is changed (see Fig. 62 and 63).

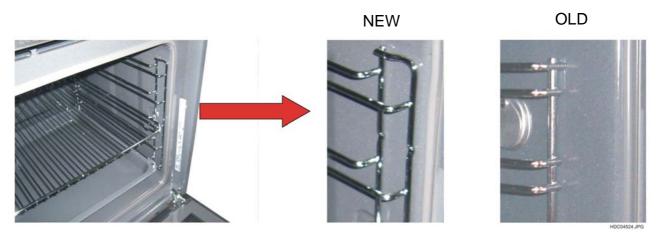


Fig. 62

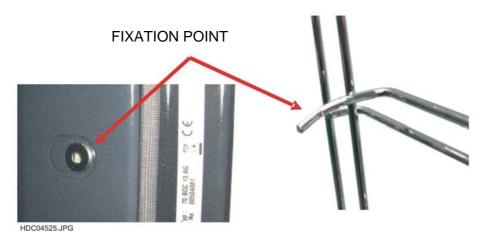


Fig. 63

11 - MICROSWITCH FOR TRACK (PYRO)

In pyrolytic ovens due to high temperature during the pyrolytic cleaning cycle, the grids and their tracks must be removed.

The micro for the detection of the rails is mounted only on the right, and it is controlled mechanically by the guide pin grid.

The track detection is mounted on the right side only.

The pin of the track is switching via mechanical the micro-switch.

Attention!

Short track pin = rear Long track = front

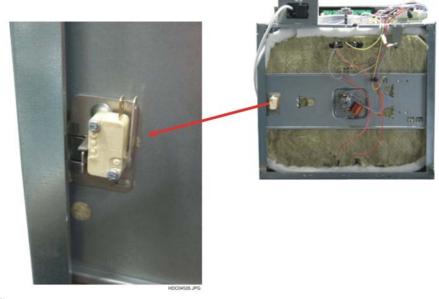


Fig. 64



Fig. 65

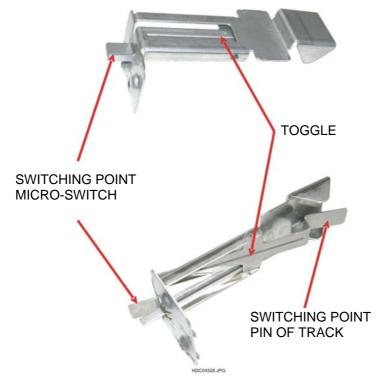


Fig. 66



Fig. 67

12 - FLEXIBLE TELESCOPIC RUNNER

In the previous production, the customer had to buy new comprehensive guides included with 2 or 3 sets of telescopic. The telescopic rails were welded to the side rails. The new assemblies' telescopic guides with expert guides could only be removed together.

Now in the new production Apollo, telescopic slides are attached to the side rails snap (see Fig. 68). The customer can buy one, two or three telescopic and fitted into the side rails to the desired position, or want can remove them.

There are two versions of telescopic runner, partial telescopic runner and total telescopic runner.

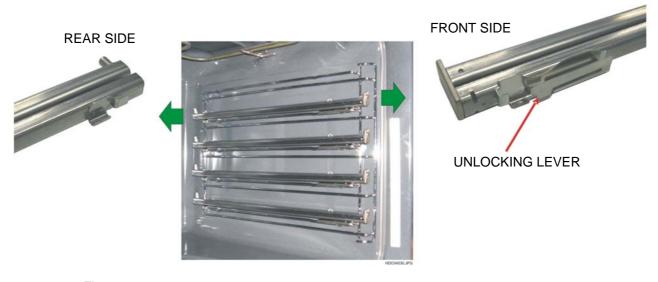


Fig. 68

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13 - FOOD PROBE

The food probe is connected from outside (see Fig. 72 e 73).

The terminal plug is smaller and the wire is thinner against the old version (see Fig. 69 e 70).

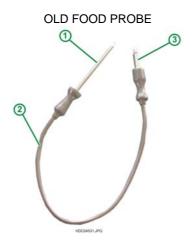


Fig. 69

- 1 TIP OF THE PROBE TO BE INCLUDED IN FOOD
- 2 BIG WIRE
- 3 BIG PLUG

OLD POSITION OF PROBE CONNECTION



Fig. 71

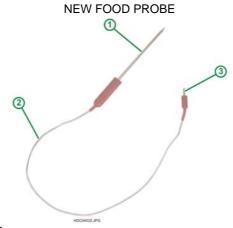


Fig. 70

- 1 TIP OF THE PROBE TO BE INCLUDED IN FOOD
- 2 SMALL WIRE
- 3 SMALL PLUG

NEW POSITION OF PROBE CONNECTION



Fig. 72

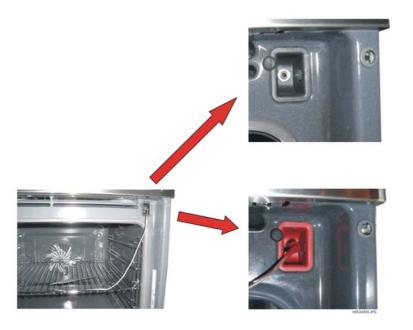


Fig. 73

14 - ILLUMINATION

OLD ILLUMINATION SYSTEM

REAR FILAMENT LAMP 230V / 40W



Fig. 74

ON THE SIDE HALOGEN 12V / 20W SWITCHED VIA TRANSFORMER



Fig. 76

NEW ILLUMINATION SYSTEM

TOP HALOGEN 230V / 40W SWITCHED VIA TRIAC



Fig. 75

ON THE SIDE HALOGEN 230V / 25W SWITCHED VIA TRIAC





Fig. 77

Fig. 78

14.1 - ILLUMINATION TOP

To remove the lamp: turn out the lamp glass and pull out the halogen lamp (see Fig. 79 and 80). To remove the holder: remove the top cover plate and component carrier. Lamp socket is clipped (see Fig. 81).







Fig. 80



Fig. 81

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15 - SMELL FILTER

Depends on appliances versions, the oven can be provided with a smell filter with or without heating element.

15.1 - SMELL FILTER WITH HEATING ELEMENT

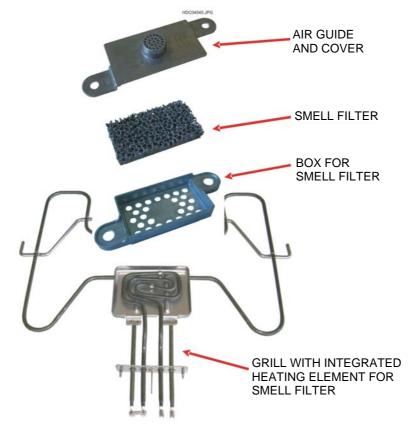


Fig. 82



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Fig. 83

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15.2 - SMELL FILTER WITHOUT HEATING ELEMENT

OUTSIDE

Fig. 84 Fig. 85



INSIDE

16 - REAR CROSS-TRAVERSE

The cavity is fixed at 3 points with screws to the rear cross-traverse.

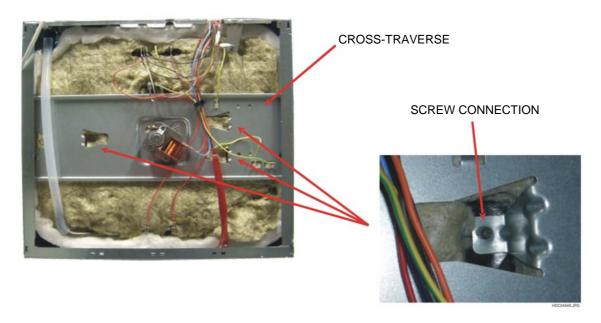


Fig. 87

It has been provided, a cross-traverse mobile supported on the side panels, in two places on the right and left side.

During the heating-up phase, the cavity can extended to the backside (up to 5mm).

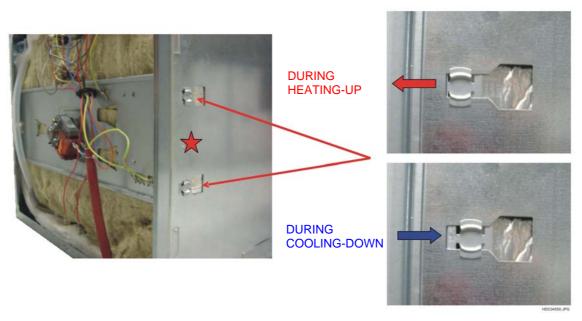


Fig. 88

Now, for reasons of transport, the cross-traverse is fixed to the left and right side with a screw.

17 - CABINET DISTANCE SPACER (PYRO)

On pyrolytic appliances, to get better air ventilation, two distance spacer are clipped on the left and right side. The appliance gets a centred position.



Fig. 89

18 - TOP SIDE

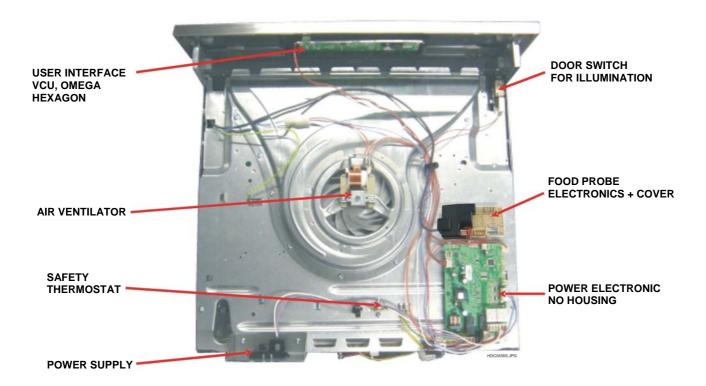


Fig. 90

19 - REAR SIDE

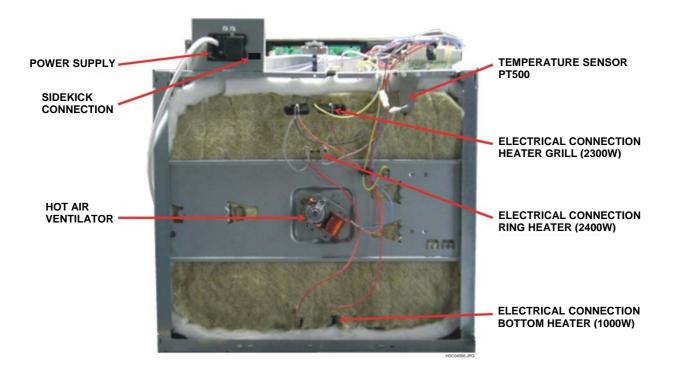


Fig. 91

20 - COMPONENT CARRIER

The air channel with ventilator is without bottom plate. The air channel is crammed in the panel support and fixed with screws.

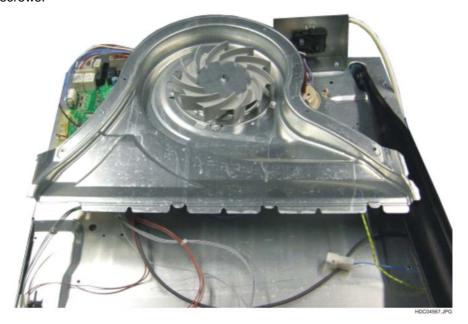


Fig. 92



Fig. 93

Depends of the component carrier, the air channel is complete decoupled from the cavity. The cavity is complete isolated, the outcome of this is no heat loss. The air channel will remains "cold".

21 - DOOR SWITCH FOR ILLUMINATION

OLD DOOR SWITCH



Fig. 94

NEW DOOR SWITCH



DOOR SWICH CLOSING

DOOR CLOSED = SWITCH OPEN



Fig. 96

DOOR OPEN = SWITCH CLOSED



Fig. 97

22 - POWER SUPPLY

The position of power junction box moved from bottom right to top right.

POWER SUPPLY CONNECTION

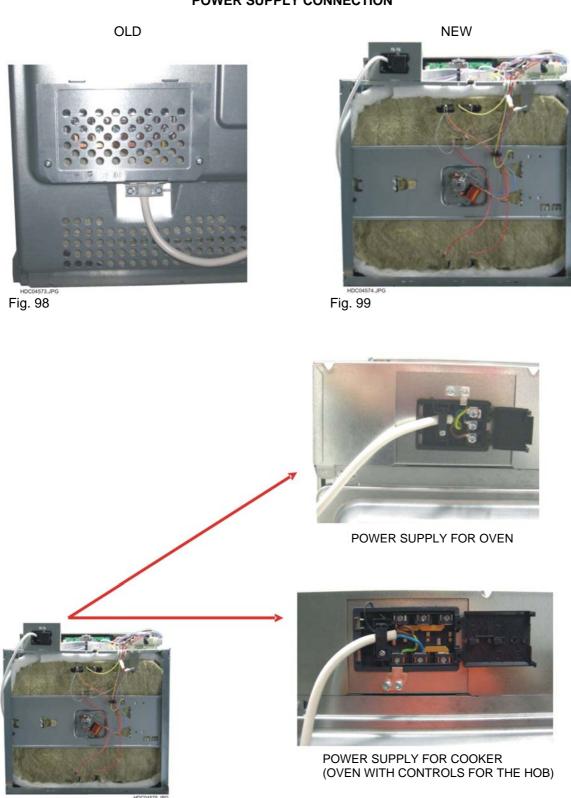


Fig. 100

23 - SIDEKICK CONNECTION

Near the power junction box, is provided the connection for sidekick.



CONNECTION FOR SIDEKICK

Fig. 101



24 - CRISS-CROSS CONNECTOR SYSTEM

The CrissCross-connector-system is still present on Apollo cookers. The coding of the connector and the colour is changing.

The red connector is for a hob with potentiometer is changed on Apollo cookers to a yellow connector.

The blue connector is for hobs with energy regulator, is changed on Apollo cookers to an orange connector.

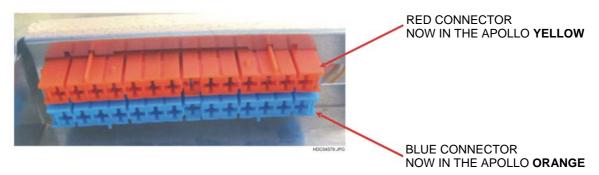


Fig. 104

	CENTURY OVENS	APOLLO OVENS
CONNECTOR FOR HOBS WITH POTENTIOMETER	RED COLOR	YELLOW COLOR
CONNECTOR FOR HOBS WITH ENERGY REGULATOR	BLUE COLOR	ORANGE COLOR

25 - WIRING HARNESS LAYING

SIMPLIFIED WIRING GUIDE

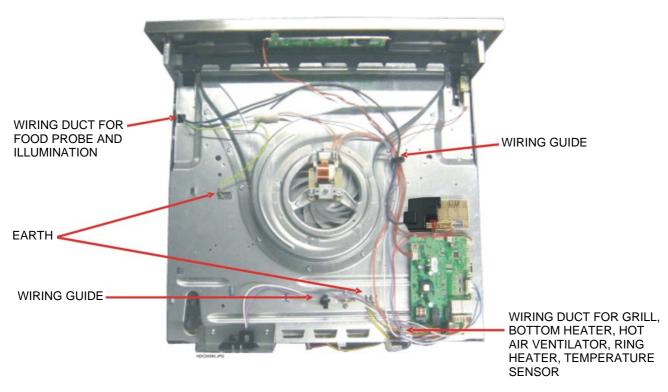


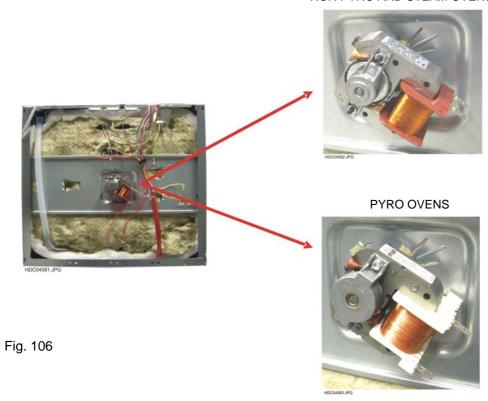
Fig. 105

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26 - HOT AIR VENTILATION

In the Apollo structure uses two different types of hot-air ventilator.

NON PYRO AND STEAM OVENS

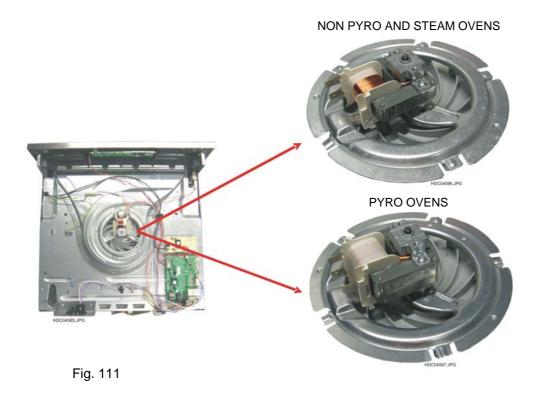


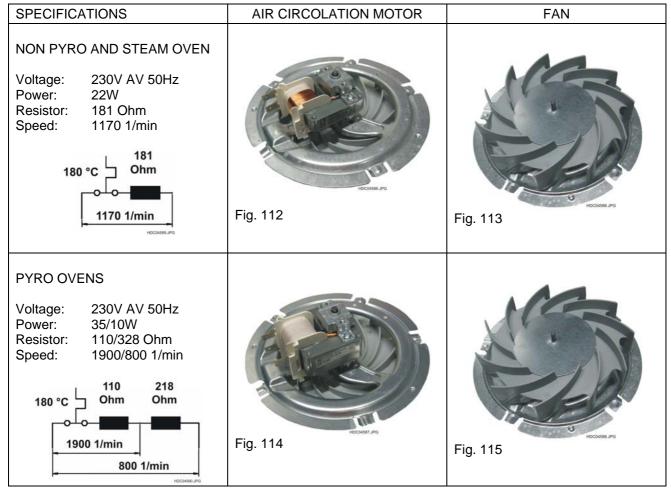
SPECIFICATIONS	HOT AIR MOTOR	FAN
NON PYRO AND STEAM OVEN Voltage: 220-240V AV 50Hz Power: 25W Resistor: 132 Ohm Speed: 1750 1/min	HD:004582.JPG Fig. 107	HDC04584JPG Fig. 108
PYRO OVENS Voltage: 230-240V AV 50Hz Power: 26/28W Resistor: 98 Ohm Speed: 1600 1/min	HOCHSASJ.PG Fig. 109	HDCOMSMJ.JPG Fig. 110

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27 - VENTILATOR FOR AIR CIRCOLATION

In the Apollo structure uses two different types of ventilator for air circulation.





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28 - TEMPERATURE SENSOR PT500

The working temperature of the sensor PT500 is from 0°C to 550°C.

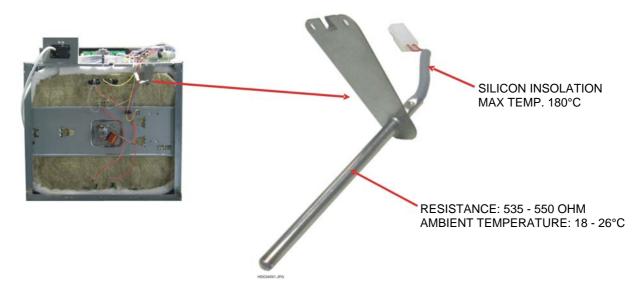


Fig. 116

29 - SAFETY THERMOSTAT

In case of over-temperature the thermostat switches off the appliance.

The thermostat has normally closed contacts when it comes to temperature opens the contacts, and is connected in series with the power supply (L) and electronics.

The working temperature is depends on different appliances. For differentiation, the thermostats are identified with different colour points (e.g. 2x green).

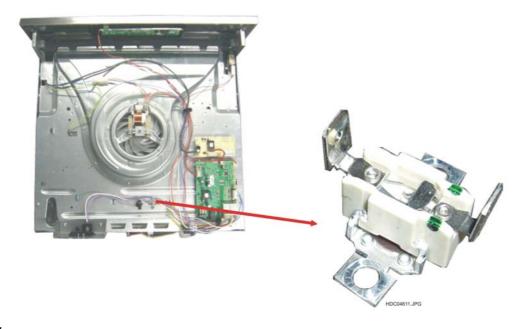


Fig. 117

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30 - POWER BOARD OVC3000

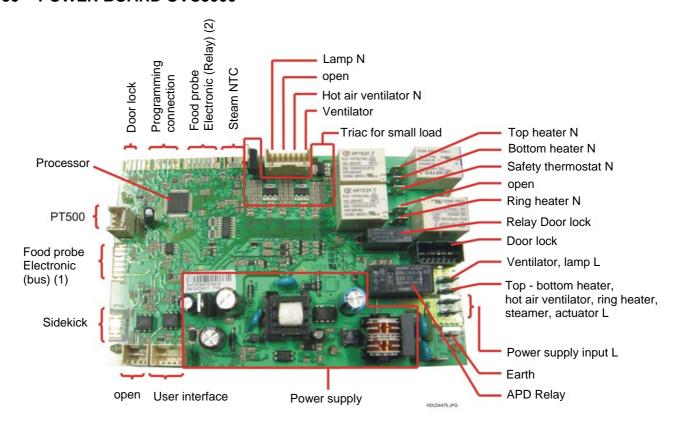


Fig. 118

31 - POWER BOARD EXAGON

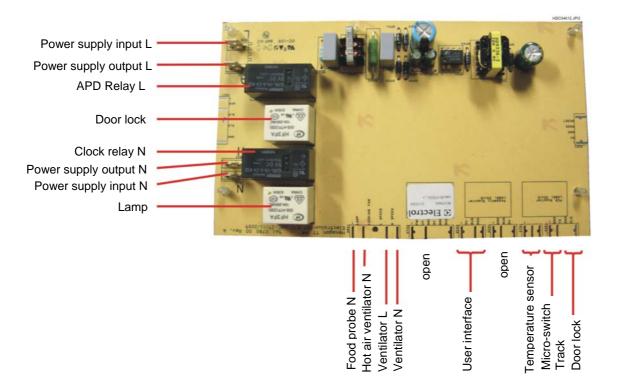


Fig. 119

32 - ELECTRONIC BOARD FOOD PROBE

FPM WITHOUT STEAMER

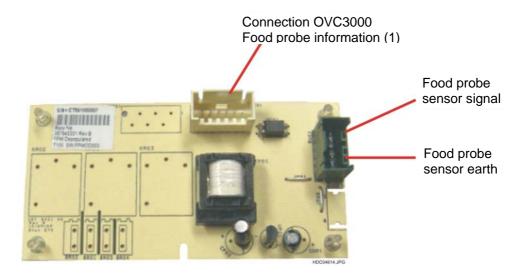
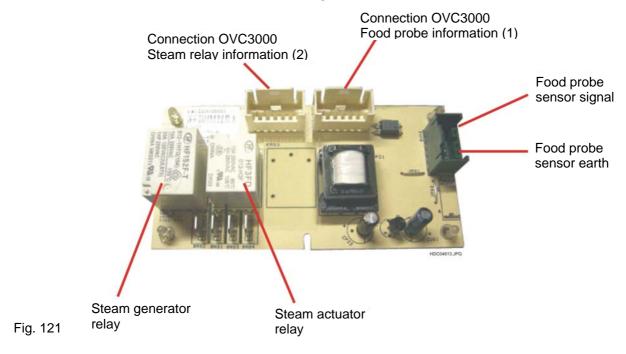


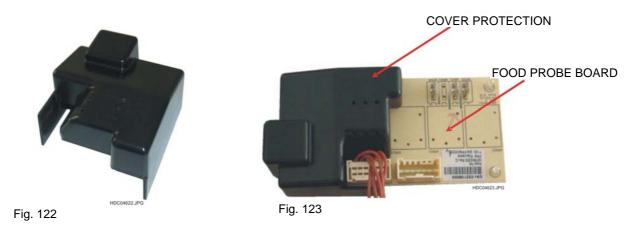
Fig. 120

FPM WITH STEAMER



32.1 - BOARD FOOD PROBE COVER

The FPM card is equipped with a cover to ensure safety of isolation.



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33 - REMOVAL THE DISPLAY ELECTRONIC VCU

ATTENTION: At the disassembly and assembly the display electronic and the touch electronic, don't twist the connector on the electronic.

Remove the wiring connection from the electronic and disassembly the panel support (2 screws).

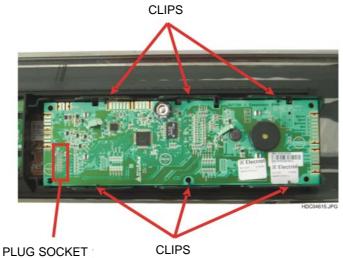


Fig. 124

PLUG SOCKET

Disassembly: Unlatch the electronic from the right side.



Fig. 125

Assembly: Latch the plug socket and the electronic from the left side

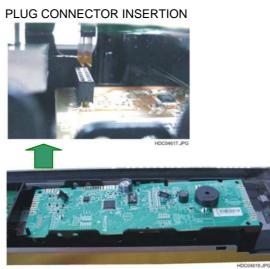


Fig. 126

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34 - REMOVAL THE TOUCH ELECTRONIC VCU

To remove the touch electronic VCU:

- 1. Remove the wiring connection from the electronic and disassembly the panel support (2 screws).
- 2. Remove the reflector, shuttle and display-electronic.

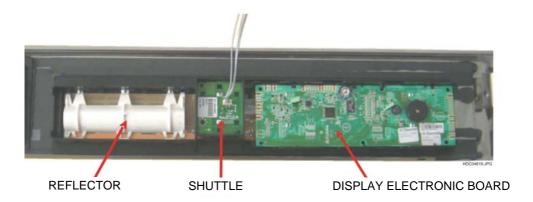


Fig. 127



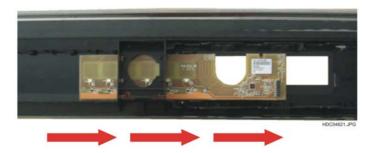


Fig. 129

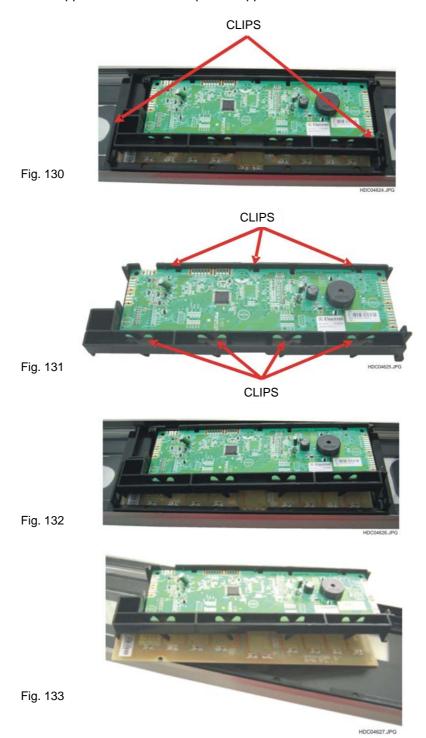
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35 - REMOVAL THE DISPLAY ELECTRONIC OMEGA

ATTENTION: At the disassembly and assembly the display electronic and the touch electronic, don't twist the connector on the electronic.

Remove the wiring connection from the electronic and disassembly the control panel support (2 screws).

Unlatch the electronic with support from the control panel support.



Assembly:

Stick the touch electronic and the display electronic together, afterwards latch into the panel support.

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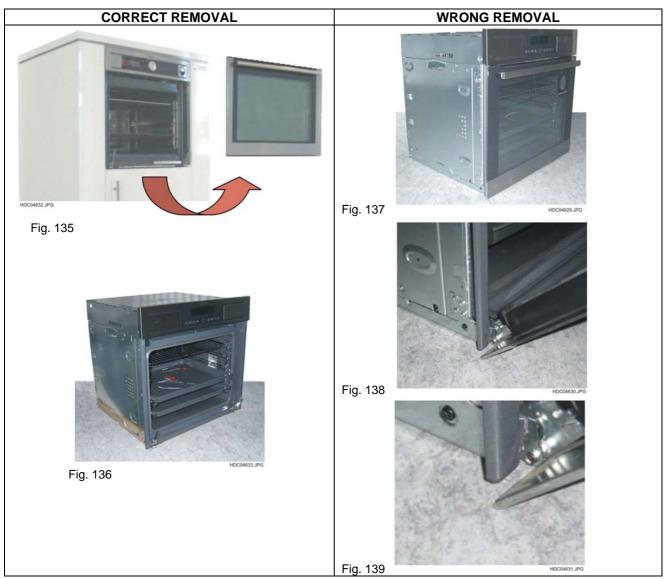
36 - REMOVAL OF APPLIANCE

To avoid damaging the door panel or the floor, before removing the equipment from the 'Built, remove the

oven door.



Fig. 134



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